SIGMA 500
32 CHANNEL SUMMING/POWERED RACK

Overview: The Sigma 500 is a 2u 32 channel passive summing box that uses 500 series compatible preamps in either single or dual sizes, and it also pulls double duty as a 2 in x 2 out powered rack.

There are 3 modes.

- In **SUM** mode, the two preamps act as summing amps for the left and right channels. The even numbered input channels are wired to the left preamp and the odd numbered input channels are wired to the right preamp. Sending stereo panned tracks from your DAW will allow more intricate panning. There is a toggle switch on the faceplate that controls the mode of operation.

- In **ALT** mode, the alt XLR inputs are sent directly to the modules, bypassing the summing portion.

- In **PASSIVE** mode, the passive summing circuitry is isolated so you can use it with preamps other than the 500 series type, such as rack mount or table top preamps.

There are no hardware faders or pans to worry about recalling correctly. This means you can go from mix session to mix session and not have to worry about recall …one less thing you have to think about when mixing.

The Sigma 500's support of 500 series preamps allows for quick tonal color changes. For instance, if you are looking for a different color for a particular mix, well it's as easy as taking preamp set A out and popping preamp set B in. You can make the preamps you already own pull double duty for tracking, and now, mixing.

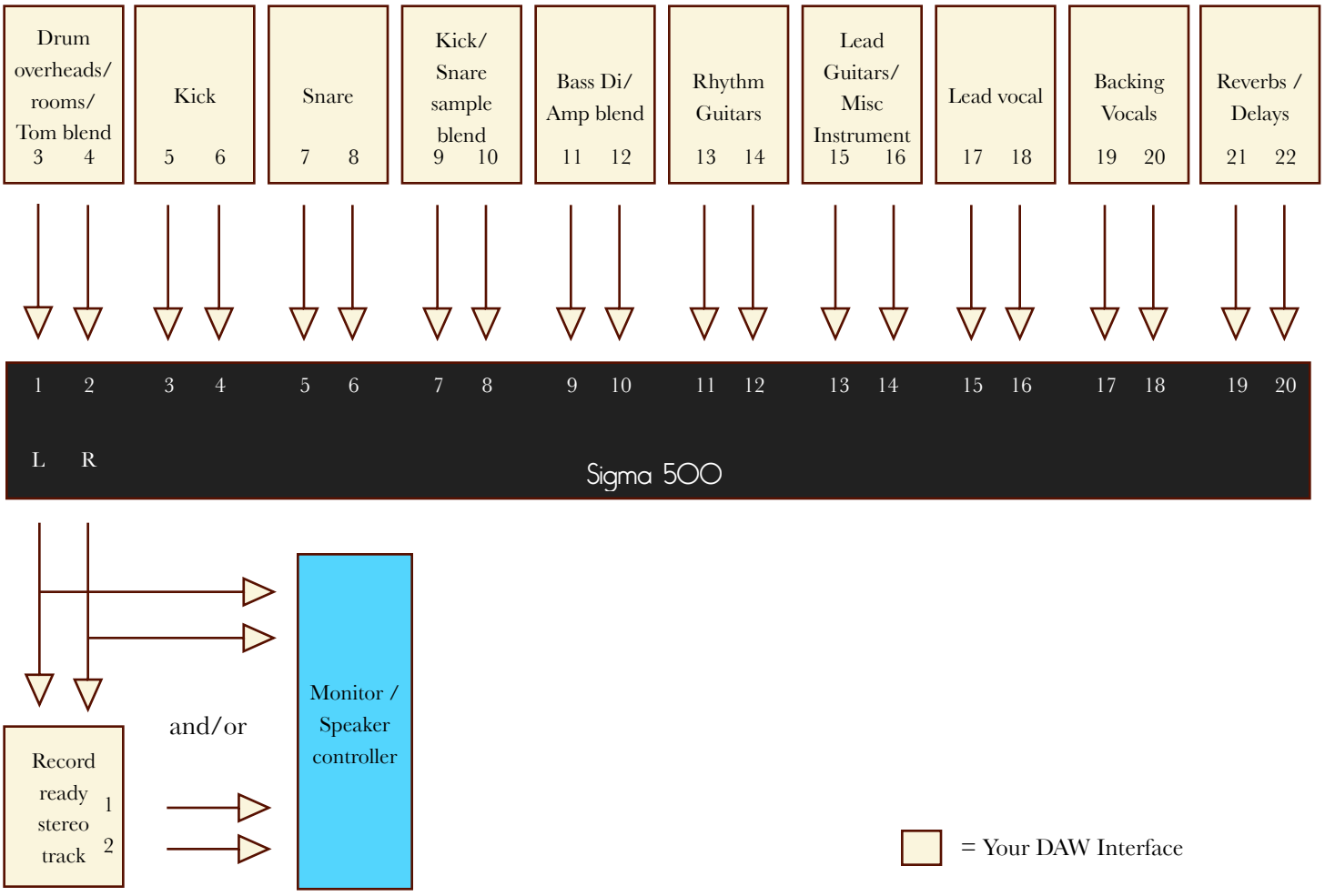
Sigma 500 Specifications:

- Input: 32 channels via Dsub
  2 channels via XLR
- Output: 2 channels
- Odd channels wired to channel 1, Even channels wired to channel 2
- Power: Switchable for 110/220v on IEC inlet
- DC Power output: 16v/417ma
- Chassis: 2u Durable Steel
- Db25: Standard Tascam pinout

SIGMA 500

SUM mode operation: Insert your two 500 series preamps into the Sigma 500. As with any 500 series module box, make sure your preamp's pcb has lined up correctly with the edge connectors inside the Sigma 500. Connect your line level signals to be summed to one or more of the DB25 connectors. The DB25 connectors conform to the standard Tascam format. If you want the signal to be in the left channel, connect to an odd numbered input like 1, 3, 5, 7, 9 etc.... If you want the signal to be in the right channel, connect to an even numbered input like 2, 4, 6, 8, 10 etc..... If you want the signal to be in the center, output your signal through two outputs of your DAW interface and connect to both an odd and even number input on the Sigma 500. More precise panning can be achieved by using your DAW's panning and connecting to the Sigma 500 in a stereo fashion using both left and right inputs.

Example Setup:


Drum overheads/ rooms/ Tom blend 3 4
Kick 5 6
Snare 7 8
Kick/ Snare sample blend 9 10
Bass Di/ Amp blend 11 12
Rhythm Guitars 13 14
Lead Guitars/ Misc Instrument 15 16
Lead vocal 17 18
Backing Vocals 19 20
Reverbs / Delays 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
L R
Sigma 500
Record ready stereo track 1 2
and/or
Monitor / Speaker controller
= Your DAW Interface

SIGMA 500

ALT mode operation: Insert your two 500 series preamps into the Sigma 500. As with any 500 series module box, make sure your preamp's pcb has lined up correctly with the edge connectors inside the Sigma 500. This mode is most often used with your mic preamps in a recording situation. However, it can also be used for powering other 500 series compatible products like EQs and compressors. Flipping the mode switch up to ALT mode connects the 2 female xlrs directly to the inputs of the corresponding 500 module. Connect up your mic lines to these two female xlrs and the signal flows through the modules to the 2 male xlr connectors.

Example Setup:

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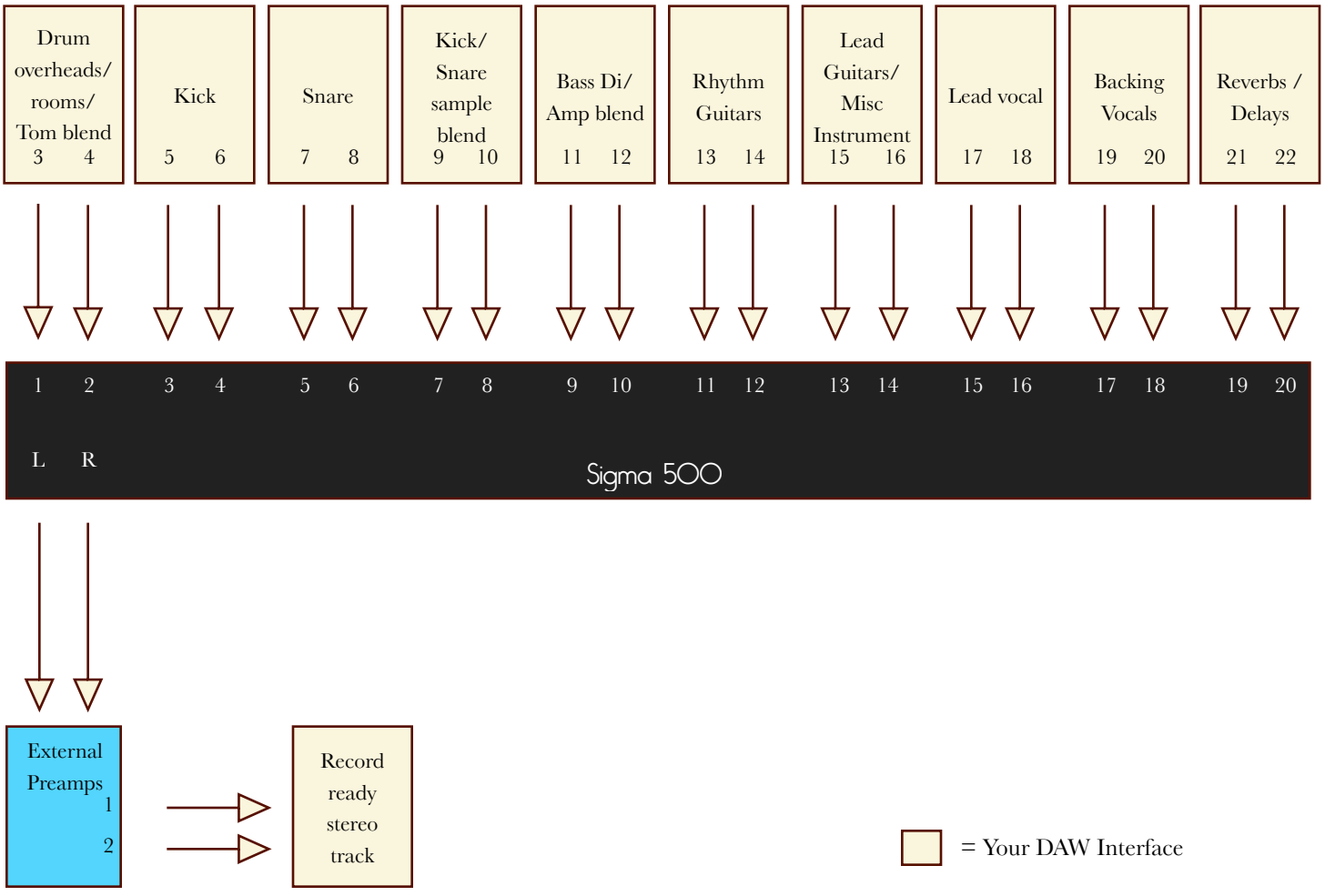
Passive mode operation: Passive mode is just like SUM mode, but with a twist.
In order to get into passive mode, just turn the Sigma 500's power switch to off. This will isolate the summing circuitry by connecting the output of the summing network directly to the output xlrs. Then, just connect the outputs of the Sigma 500 to your chosen rack unit or table top preamps to use as the summing amps.

Attention: Make sure to turn the phantom power off on the mic preamps you end up using before connecting them to the Sigma 500.

Example Setup:

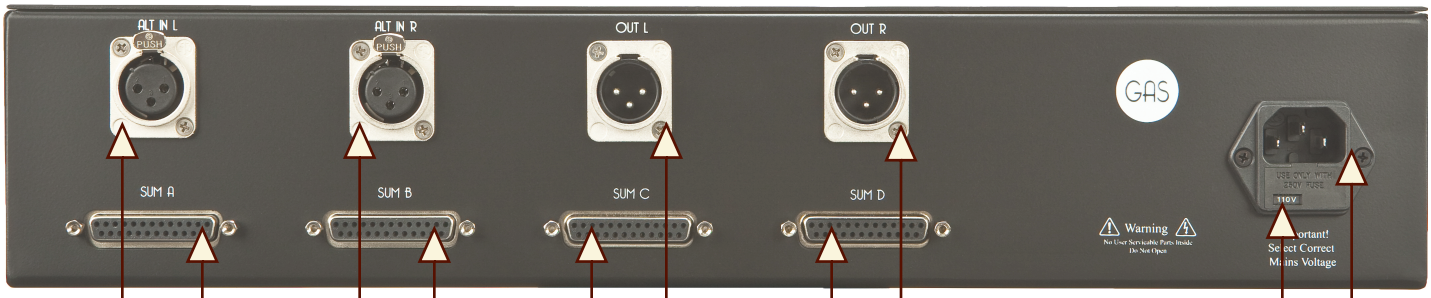


SIGMA 500

Front

Power Switch Mode Switch Slot L Slot R

Back



Alt In L Alt In R Out L Out R AC Volts selector

Summing inputs IEC Inlet